

Abstract

A tuner includes an RF input with a signal level controller such as an attenuator that is provided to attenuate a signal from the RF input. A tunable RF filter provides RF band limiting and determines simultaneously the AGC bandwidth. An amplifier with resistive feedback provides first and second outputs which, together, represent the incident power of the attenuated signal delivered by the amplifier, thus eliminating the need for a directional coupler and rendering this part of the tuner compatible with integration. A feedback circuit responds to the incident power of the attenuated signal by controlling the attenuation (AGC) provided by the signal level controller.